Author index to volume 190

Abbouti Temsamani, M., see J. Liévin	190 (1995) 419
Ågren, H., see B. Minaev	190 (1995) 11
Ainetschian, A., G.T. Fraser, B.H. Pate and R.D. Suenram, High-order torsional couplings	
in the infrared spectrum of 3,3,3-trifluoropropene	190 (1995) 231
Allcock, P., see D.L. Andrews	190 (1995) 1
Alvarez, I., see H. Martínez	190 (1995) 139
Andrews, D.L., P. Allcock and A.A. Demidov, Theory of second harmonic generation in	
randomly oriented species	190 (1995) 1
Andrews, S.R., see C.J. Reid	190 (1995) 113
Applequist, J., Fundamental relationships in the theory of electric multipole moments and	
multipole polarizabilities in static fields (Chemical Physics 85 (1984) 279-290). Erratum	190 (1995) 153
Ballantine, J.A., see C.J. Reid	190 (1995) 113
Bartels, D.M., see K.H. Schmidt	190 (1995) 145
Bennett, F.R., A theoretical reinvestigation of the $\tilde{A}^{1}\Pi_{u}$ state of N_{2}^{2+}	190 (1995) 53
Boraas, K. and J.P. Reilly, The $3\nu_1 + \nu_3$ vibrational overtone spectrum of $^{13}\text{CH}_4$	190 (1995) 301
Borin, A.C. and F.R. Ornellas, A theoretical study of the transition moments, Einstein A	100 (1005) 42
coefficients, and radiative lifetimes of the lowest triplet states of BeC	190 (1995) 43
Borro, A.F., I.M. Mills and A. Mose, Overtone spectra and anharmonic resonances in	100 (1005) 2(2
haloacetylenes	190 (1995) 363
Borsenberger, P.M., see M. Van der Auweraer	190 (1995) 31
Botschwina, P., B. Schulz, M. Horn and M. Matuschewski, Ab initio calculations of	
stretching vibrational transitions for the linear molecules HCN, HNC, HCCF and HC ₃ N	100 (1005) 245
up to high overtones	190 (1995) 345
Brock, A., see C. Manzanares I.	190 (1995) 247
Bruun, G., see M.S. Child	190 (1995) 373
Buenker, R.J., see P. Jensen	190 (1995) 179
Bunker, P.R. and C. Di Lauro, Dimethylacetylene: the theory required to analyse the in-	100 (1005) 150
frared and Raman perpendicular bands	190 (1995) 159
Bylicki, F., see R. Georges	190 (1995) 207
Campargue, A., see R. Georges	190 (1995) 207
Carrasquillo M., E., see A.L. Utz	190 (1995) 311
Charvat, A., see R. Georges	190 (1995) 207
Chenevier, M., see R. Georges	190 (1995) 207
Child, M.S., G. Bruun and R. Paul, Short time quantum phase space dynamics at a 1:2	
Fermi resonance	190 (1995) 373

Author index to volume 190

Abbouti Temsamani, M., see J. Liévin	190 (1995) 419
Ågren, H., see B. Minaev	190 (1995) 11
Ainetschian, A., G.T. Fraser, B.H. Pate and R.D. Suenram, High-order torsional couplings	
in the infrared spectrum of 3,3,3-trifluoropropene	190 (1995) 231
Allcock, P., see D.L. Andrews	190 (1995) 1
Alvarez, I., see H. Martínez	190 (1995) 139
Andrews, D.L., P. Allcock and A.A. Demidov, Theory of second harmonic generation in	
randomly oriented species	190 (1995) 1
Andrews, S.R., see C.J. Reid	190 (1995) 113
Applequist, J., Fundamental relationships in the theory of electric multipole moments and	
multipole polarizabilities in static fields (Chemical Physics 85 (1984) 279-290). Erratum	190 (1995) 153
Ballantine, J.A., see C.J. Reid	190 (1995) 113
Bartels, D.M., see K.H. Schmidt	190 (1995) 145
Bennett, F.R., A theoretical reinvestigation of the $\tilde{A}^{1}\Pi_{u}$ state of N_{2}^{2+}	190 (1995) 53
Boraas, K. and J.P. Reilly, The $3\nu_1 + \nu_3$ vibrational overtone spectrum of $^{13}\text{CH}_4$	190 (1995) 301
Borin, A.C. and F.R. Ornellas, A theoretical study of the transition moments, Einstein A	100 (1005) 42
coefficients, and radiative lifetimes of the lowest triplet states of BeC	190 (1995) 43
Borro, A.F., I.M. Mills and A. Mose, Overtone spectra and anharmonic resonances in	100 (1005) 2(2
haloacetylenes	190 (1995) 363
Borsenberger, P.M., see M. Van der Auweraer	190 (1995) 31
Botschwina, P., B. Schulz, M. Horn and M. Matuschewski, Ab initio calculations of	
stretching vibrational transitions for the linear molecules HCN, HNC, HCCF and HC ₃ N	100 (1005) 245
up to high overtones	190 (1995) 345
Brock, A., see C. Manzanares I.	190 (1995) 247
Bruun, G., see M.S. Child	190 (1995) 373
Buenker, R.J., see P. Jensen	190 (1995) 179
Bunker, P.R. and C. Di Lauro, Dimethylacetylene: the theory required to analyse the in-	100 (1005) 150
frared and Raman perpendicular bands	190 (1995) 159
Bylicki, F., see R. Georges	190 (1995) 207
Campargue, A., see R. Georges	190 (1995) 207
Carrasquillo M., E., see A.L. Utz	190 (1995) 311
Charvat, A., see R. Georges	190 (1995) 207
Chenevier, M., see R. Georges	190 (1995) 207
Child, M.S., G. Bruun and R. Paul, Short time quantum phase space dynamics at a 1:2	
Fermi resonance	190 (1995) 373

	400 (4005) 400
Cisneros, C., see H. Martínez	190 (1995) 139
Coxon, J.A., see P.I. Presunka	190 (1995) 97
Crim, F.F., see A.L. Utz	190 (1995) 311
Delon, A., see R. Georges	190 (1995) 207
Demidov, A.A., see D.L. Andrews	190 (1995) 1
Demtröder, W., see Ch. Hornberger	190 (1995) 171
Denda, T., see N. Matsuda	190 (1995) 83
De Schryver, F.C., see M. Van der Auweraer	190 (1995) 31
De Urquijo, J., see H. Martínez	190 (1995) 139
Di Lauro, C., see P.R. Bunker	190 (1995) 159
Di Lonardo, G., see E. Venuti	190 (1995) 279
Formanti D. coa F. Vanuti	100 (1005) 270
Ferracuti, P., see E. Venuti Fraser, G.T., see A. Ainetschian	190 (1995) 279
	190 (1995) 231
Fuentes, B.E., see H. Martínez	190 (1995) 139
Fusina, L., see E. Venuti	190 (1995) 279
Gambogi, J.E., R. Zachary Pearson, X. Yang, K.K. Lehmann and	
lar vibrational dynamics of diacetylene and diacetylene- d_1 via ei	genstate-resolved over-
tone spectroscopy	190 (1995) 191
Gaspard, P., see J. Liévin	190 (1995) 419
Georges, R., A. Delon, F. Bylicki, R. Jost, A. Campargue, A. Char F. Stoeckel, Jet cooled NO ₂ intra cavity laser absorption spectros	
11200 and 16150 cm	190 (1995) 207
Handy, N.C., see P. Palmieri	190 (1995) 327
Harris, F.M., see C.J. Reid	190 (1995) 113
Held, A. and M. Herman, High resolution spectroscopic study of t	
N-H stretch and of the fundamentals of the C-H stretches in py	
Herman, M., see A. Held	190 (1995) 407
Herman, M., see J. Liévin	190 (1995) 419
Hirsch, G., see P. Jensen	190 (1995) 179
Hochstrasser, R.M., see B. Locke	190 (1995) 155
Horn, M., see P. Botschwina	190 (1995) 345
Hornberger, Ch., M. König, S.B. Rai and W. Demtröder, Sensitive	
spectroscopy of acetylene with a multipass photoacoustic cell a	
	190 (1995) 171
at 1.5 µm	190 (1995) 327
Hühn, M.M., see P. Palmieri	190 (1993) 327
Jensen, P., Y. Li, G. Hirsch, R.J. Buenker, T.J. Lee and I.N. Koz	
rovibrational energies in H2Te studied with an ab initio potentia	
Jonsson, D., see B. Minaev	190 (1995) 11
Jost, R., see R. Georges	190 (1995) 207
Kakitani, T., see N. Matsuda	190 (1995) 83
Kierzkowski, P., R. Ławruszczuk and A. Kowalski, Chemilumines	
collisions of Ca(1S), Sr(1S) and Mg*(3P) atoms with I2	190 (1995) 131

König, M., see Ch. Hornberger	190 (1995) 171
Kowalski, A., see P. Kierzkowski	190 (1995) 131
Kozin, I.N., see P. Jensen	190 (1995) 179
20000) 21 1) 00 2 1 0 0 00 00	(,
Ławruszczuk, R., see P. Kierzkowski	190 (1995) 131
Lee, T.J., see P. Jensen	190 (1995) 179
Lee, YY., see S.D. Price	190 (1995) 123
Lehmann, K.K., see J.E. Gambogi	190 (1995) 191
Lehmann, K.K., see J.H. Timmermans	190 (1995) 393
Leone, S.R., see S.D. Price	190 (1995) 123
Li, Y., see P. Jensen	190 (1995) 179
Lian, T., see B. Locke	190 (1995) 155
Liévin, J., M. Abbouti Temsamani, P. Gaspard and M. Herman, Overtone spectroscopy and	
dynamics in monodeuteroacetylene (C ₂ HD)	190 (1995) 419
Locke, B., T. Lian and R.M. Hochstrasser, Determination of Fe-CO geometry and heme	
rigidity in carbonmonoxyhemoglobin using femtosecond IR spectroscopy (Chemical	
Physics 158 (1991) 409-419). Erratum	190 (1995) 155
Manning, M., see S.D. Price	190 (1995) 123
Manzanares I., C., J. Peng, N. Mina-Camilde and A. Brock, Overtone spectroscopy of iso-	
butane at cryogenic temperatures	190 (1995) 247
Martínez, H., B.E. Fuentes, I. Alvarez, C. Cisneros and J. de Urquijo, Single and double	
electron capture in H+ on Kr collisions at low-keV energies	190 (1995) 139
Mataga, N., see N. Matsuda	190 (1995) 83
Matsuda, N., T. Kakitani, T. Denda and N. Mataga, Examination of the viability of the Collins-Kimball model and numerical calculation of the time-dependent energy gap law	
of photoinduced charge separation in polar solution	190 (1995) 83
Matuschewski, M., see P. Botschwina	190 (1995) 345
Mills, I.M., see E. Venuti	190 (1995) 279
Mills, I.M., see A.F. Borro	190 (1995) 363
Mina-Camilde, N., see C. Manzanares I.	190 (1995) 247
Minaev, B., P. Norman, D. Jonsson and H. Ågren, Response theory calculations of singlet-	()
triplet transitions in molecular nitrogen	190 (1995) 11
Mose, A., see A.F. Borro	190 (1995) 363
	()
Norman, P., see B. Minaev	190 (1995) 11
Ornellas, F.R., see A.C. Borin	190 (1995) 43
Orr, B.J., Collision-induced state-to-state energy transfer in perturbed rovibrational mani-	190 (1993) 43
folds of small polyatomic molecules: mechanistic insights and observations	190 (1995) 261
totas of small polyatorine molecules, mechanistic misights and observations	190 (1993) 201
Palmieri, P., R. Tarroni, M.M. Hühn, N.C. Handy and A. Willetts, An improved anhar-	
monic force field of CHClF ₂	190 (1995) 327
Pate, B.H., see A. Ainetschian	190 (1995) 231
Paul, R., see M.S. Child	190 (1995) 373
Pearson, R.Z., see J.E. Gambogi	190 (1995) 191
Peng, J., see C. Manzanares I.	190 (1995) 247
Presunka, P.I. and J.A. Coxon, Laser excitation and dispersed fluorescence investigations	100 (1007) 67
of the $\tilde{A}^2\Pi - \tilde{X}^2\Sigma^+$ system of SrOH	190 (1995) 97

Price, S.D., YY. Lee, M. Manning and S.R. Leone, Laser photodissociation of fluorinated	
molecular dications	190 (1995) 123
Puhovski, Y.P. and B.M. Rode, Structure and dynamics of liquid formamide	190 (1995) 61
Rai, S.B., see Ch. Hornberger	190 (1995) 171
Reid, C.J., J.A. Ballantine, S.R. Andrews and F.M. Harris, Charge inversion of ground-state and metastable-state C ₂ ⁺ cations formed from electroionised C ₂ H ₂ and C ₂ N ₂ , and a re-	
evaluation of the carbon dimer's ionisation energy	190 (1995) 113
Reilly, J.P., see K. Boraas	190 (1995) 301
Rode, B.M., see Y.P. Puhovski	190 (1995) 61
Schmidt, K.H. and D.M. Bartels, Lack of ionic strength effect in the recombination of hy-	
drated electrons: $(e^-)_{aq} + (e^-)_{aq} \rightarrow 2(OH^-) + H_2$	190 (1995) 145
Schulz, B., see P. Botschwina	190 (1995) 345
Scoles, G., see J.E. Gambogi	190 (1995) 191
Scoles, G., see J.H. Timmermans	190 (1995) 393
Stoeckel, F., see R. Georges	190 (1995) 207
Suenram, R.D., see A. Ainetschian	190 (1995) 231
Tarroni, R., see P. Palmieri	190 (1995) 327
Timmermans, J.H., K.K. Lehmann and G. Scoles, The intramolecular dynamics of allene	
in the region around 6000 cm ⁻¹ via eigenstate resolved IR spectroscopy	190 (1995) 393
Tobiason, J.D., see A.L. Utz	190 (1995) 311
Troe, J., Simplified models for anharmonic numbers and densities of vibrational states. I.	
Application to NO ₂ and H ₃ ⁺	190 (1995) 381
Utz, A.L., E. Carrasquillo M., J.D. Tobiason and F.F. Crim, Direct observation of weak	
state mixing in highly vibrationally excited acetylene	190 (1995) 311
Van der Auweraer, M., G. Verbeek, F.C. De Schryver and P.M. Borsenberger, An assess-	
ment of the role of polaron formation to hole transport in a triarylamine doped polymer	190 (1995) 31
Venuti, E., G. Di Lonardo, P. Ferracuti, L. Fusina and I.M. Mills, Vibration-rotation spec-	
tra of ¹³ C containing acetylene: anharmonic resonances	190 (1995) 279
Verbeek, G., see M. Van der Auweraer	190 (1995) 31
Watson, J.K.G., The vibration-rotation spectrum and anharmonic potential of H ₃ ⁺	190 (1995) 291
Willetts, A., see P. Palmieri	190 (1995) 327
Yang, X., see J.E. Gambogi	190 (1995) 191



Chemical Physics 190 (1995) 450-459

Chemical Physics

Subject index to volume 190

Methods

Theoretical

Group theory and algebras	
Dimethylacetylene: the theory required to analyse the infrared and Raman perpendicular bands, P.R. Bunker and C. Di Lauro	190 (1995) 159
Classical mechanics	
Short time quantum phase space dynamics at a 1:2 Fermi resonance, M.S. Child, G. Bruun and R. Paul	190 (1995) 373
Quantized field theory	
Theory of second harmonic generation in randomly oriented species, D.L. Andrews, P. Allcock and A.A. Demidov	190 (1995) 1
Coupling schemes and perturbative treatments	
Response theory calculations of singlet-triplet transitions in molecular nitrogen, B. Minaev, P. Norman, D. Jonsson and H. Ågren	190 (1995) 11
Vibration-rotation spectra of ¹³ C containing acetylene: anharmonic resonances, E. Venuti, G. Di Lonardo, P. Ferracuti, L. Fusina and I.M. Mills	190 (1995) 279
Transport quantum mechanics	
An assessment of the role of polaron formation to hole transport in a triarylamine doped polymer, M. Van der Auweraer, G. Verbeek, F.C. De Schryver and P.M. Borsenberger	190 (1995) 31
Statistical mechanics of stationary states	
Simplified models for anharmonic numbers and densities of vibrational states. I. Application to NO_2 and H_3^+ , J. Troe	190 (1995) 381
Ab initio schemes for stationary properties	
Response theory calculations of singlet-triplet transitions in molecular nitrogen, B. Minaev, P. Norman, D. Jonsson and H. Ågren	190 (1995) 11
A theoretical study of the transition moments, Einstein A coefficients, and radiative lifetimes of the lowest triplet states of BeC, A.C. Borin and F.R. Ornellas	190 (1995) 43

Overtone energinescent of inchatone at emperative C. Management I. I. Dave	
Overtone spectroscopy of isobutane at cryogenic temperatures, C. Manzanares I., J. Peng, N. Mina-Camilde and A. Brock	190 (1995) 247
An improved anharmonic force field of CHClF ₂ , P. Palmieri, R. Tarroni, M.M. Hühn,	170 (1773) 247
N.C. Handy and A. Willetts	190 (1995) 327
Ab initio calculations of stretching vibrational transitions for the linear molecules HCN,	
HNC, HCCF and HC ₃ N up to high overtones, P. Botschwina, B. Schulz, M. Horn and	
M. Matuschewski	190 (1995) 345
Computational and simulation methods	
A theoretical reinvestigation of the $\tilde{A}^{1}\Pi_{u}$ state of N_{2}^{2+} , F.R. Bennett	190 (1995) 53
Structure and dynamics of liquid formamide, Y.P. Puhovski and B.M. Rode	190 (1995) 61
Examination of the viability of the Collins-Kimball model and numerical calculation of the	
time-dependent energy gap law of photoinduced charge separation in polar solution,	100 (1000) 00
N. Matsuda, T. Kakitani, T. Denda and N. Mataga	190 (1995) 83
The vibration-rotation spectrum and anharmonic potential of H ₃ ⁺ , J.K.G. Watson Overtone spectra and anharmonic resonances in haloacetylenes, A.F. Borro, I.M. Mills and	190 (1995) 291
A. Mose	190 (1995) 363
Simplified models for anharmonic numbers and densities of vibrational states. I. Application	100 (1005) 201
to NO ₂ and H ₃ ⁺ , J. Troe	190 (1995) 381
Molecular dynamics and scattering theory	
Fourfold clusters of rovibrational energies in H ₂ Te studied with an ab initio potential energy	
function, P. Jensen, Y. Li, G. Hirsch, R.J. Buenker, T.J. Lee and I.N. Kozin	190 (1995) 179
Vibration-rotation spectra of ¹³ C containing acetylene: anharmonic resonances, E. Venuti,	
G. Di Lonardo, P. Ferracuti, L. Fusina and I.M. Mills	190 (1995) 279
Short time quantum phase space dynamics at a 1:2 Fermi resonance, M.S. Child, G. Bruun and R. Paul	190 (1995) 373
and K. Faul	170 (1773) 373
Experimental	
Magnetic resonances	
Overtone spectroscopy and dynamics in monodeuteroacetylene (C2HD), J. Liévin,	
M. Abbouti Temsamani, P. Gaspard and M. Herman	190 (1995) 419
Microwave spectroscopy	
High-order torsional couplings in the infrared spectrum of 3,3,3-trifluoropropene,	
A. Ainetschian, G.T. Fraser, B.H. Pate and R.D. Suenram	190 (1995) 231
Infrared spectroscopy	
Dimethylacetylene: the theory required to analyse the infrared and Raman perpendicular	
bands, P.R. Bunker and C. Di Lauro	190 (1995) 159
Sensitive photoacoustic overtone spectroscopy of acetylene with a multipass photoacoustic	
cell and a colour centre laser at 1.5 μ m, Ch. Hornberger, M. König, S.B. Rai and W. Demtröder	190 (1995) 171
Intramolecular vibrational dynamics of diacetylene and diacetylene- d_1 via eigenstate-	190 (1993) 1/1
resolved overtone spectroscopy, J.E. Gambogi, R. Zachary Pearson, X. Yang,	
K.K. Lehmann and G. Scoles	190 (1995) 191

It's and a territoral countings in the infrared anatomy of 2.2.2 trifly programments	
High-order torsional couplings in the infrared spectrum of 3,3,3-trifluoropropene,	
A. Ainetschian, G.T. Fraser, B.H. Pate and R.D. Suenram	190 (1995) 231
Overtone spectroscopy of isobutane at cryogenic temperatures, C. Manzanares I., J. Peng,	
N. Mina-Camilde and A. Brock	190 (1995) 247
Vibration-rotation spectra of ¹³ C containing acetylene: anharmonic resonances, E. Venuti,	
G. Di Lonardo, P. Ferracuti, L. Fusina and I.M. Mills	190 (1995) 279
The vibration-rotation spectrum and anharmonic potential of H ₃ ⁺ , J.K.G. Watson	190 (1995) 291
Overtone spectra and anharmonic resonances in haloacetylenes, A.F. Borro, I.M. Mills and	
A. Mose	190 (1995) 363
The intramolecular dynamics of allene in the region around 6000 cm ⁻¹ via eigenstate	
resolved IR spectroscopy, J.H. Timmermans, K.K. Lehmann and G. Scoles	190 (1995) 393
High resolution spectroscopic study of the first overtone of the N-H stretch and of the	
fundamentals of the C-H stretches in pyrrole, A. Held and M. Herman	190 (1995) 407
Overtone spectroscopy and dynamics in monodeuteroacetylene (C2HD), J. Liévin,	
M. Abbouti Temsamani, P. Gaspard and M. Herman	190 (1995) 419
Visible and UV spectroscopy	
A theoretical reinvestigation of the $\tilde{A}^{1}\Pi_{u}$ state of N_{2}^{2+} , F.R. Bennett	190 (1995) 53
Dimethylacetylene: the theory required to analyse the infrared and Raman perpendicular	170 (1773) 33
bands, P.R. Bunker and C. Di Lauro	190 (1995) 159
Jet cooled NO ₂ intra cavity laser absorption spectroscopy (ICLAS) between 11200 and	190 (1993) 139
16150 cm, R. Georges, A. Delon, F. Bylicki, R. Jost, A. Campargue, A. Charvat,	
M. Chenevier and F. Stoeckel	190 (1995) 207
W. Chelevier and F. Stoccker	190 (1993) 207
Fluorescence spectroscopy	
Laser excitation and dispersed fluorescence investigations of the $\tilde{A}^2\Pi$ - $\tilde{X}^2\Sigma^+$ system of	
SrOH, P.I. Presunka and J.A. Coxon	190 (1995) 97
Laser methods	
Laser methods Laser excitation and dispersed fluorescence investigations of the $\tilde{A}^2\Pi - \tilde{X}^2\Sigma^+$ system of SrOH, P.I. Presunka and J.A. Coxon	190 (1995) 97
Laser excitation and dispersed fluorescence investigations of the $\tilde{A}^2\Pi - \tilde{X}^2\Sigma^+$ system of SrOH, P.I. Presunka and J.A. Coxon	190 (1995) 97
Laser excitation and dispersed fluorescence investigations of the $\boldsymbol{\tilde{A}}^2\boldsymbol{\Pi}\boldsymbol{-}\boldsymbol{\tilde{X}}^2\boldsymbol{\Sigma}^+$ system of	190 (1995) 97 190 (1995) 123
 Laser excitation and dispersed fluorescence investigations of the à ²Π-à ²Σ⁺ system of SrOH, P.I. Presunka and J.A. Coxon Laser photodissociation of fluorinated molecular dications, S.D. Price, YY. Lee, 	
 Laser excitation and dispersed fluorescence investigations of the à ²Π-à ²Σ + system of SrOH, P.I. Presunka and J.A. Coxon Laser photodissociation of fluorinated molecular dications, S.D. Price, YY. Lee, M. Manning and S.R. Leone Intramolecular vibrational dynamics of diacetylene and diacetylene-d₁ via eigenstate- 	
 Laser excitation and dispersed fluorescence investigations of the à ²Π-à ²Σ + system of SrOH, P.I. Presunka and J.A. Coxon Laser photodissociation of fluorinated molecular dications, S.D. Price, YY. Lee, M. Manning and S.R. Leone 	190 (1995) 123
 Laser excitation and dispersed fluorescence investigations of the à ²Π-à ²Σ + system of SrOH, P.I. Presunka and J.A. Coxon Laser photodissociation of fluorinated molecular dications, S.D. Price, YY. Lee, M. Manning and S.R. Leone Intramolecular vibrational dynamics of diacetylene and diacetylene-d₁ via eigenstate-resolved overtone spectroscopy, J.E. Gambogi, R. Zachary Pearson, X. Yang, K.K. Lehmann and G. Scoles 	
 Laser excitation and dispersed fluorescence investigations of the à ²Π-ᾶ ²Σ + system of SrOH, P.I. Presunka and J.A. Coxon Laser photodissociation of fluorinated molecular dications, S.D. Price, YY. Lee, M. Manning and S.R. Leone Intramolecular vibrational dynamics of diacetylene and diacetylene-d₁ via eigenstate-resolved overtone spectroscopy, J.E. Gambogi, R. Zachary Pearson, X. Yang, K.K. Lehmann and G. Scoles Jet cooled NO₂ intra cavity laser absorption spectroscopy (ICLAS) between 11200 and 	190 (1995) 123
 Laser excitation and dispersed fluorescence investigations of the à ²Π-à ²Σ + system of SrOH, P.I. Presunka and J.A. Coxon Laser photodissociation of fluorinated molecular dications, S.D. Price, YY. Lee, M. Manning and S.R. Leone Intramolecular vibrational dynamics of diacetylene and diacetylene-d₁ via eigenstate-resolved overtone spectroscopy, J.E. Gambogi, R. Zachary Pearson, X. Yang, K.K. Lehmann and G. Scoles 	190 (1995) 123 190 (1995) 191
 Laser excitation and dispersed fluorescence investigations of the à ²Π-ᾶ ²Σ + system of SrOH, P.I. Presunka and J.A. Coxon Laser photodissociation of fluorinated molecular dications, S.D. Price, YY. Lee, M. Manning and S.R. Leone Intramolecular vibrational dynamics of diacetylene and diacetylene-d₁ via eigenstate-resolved overtone spectroscopy, J.E. Gambogi, R. Zachary Pearson, X. Yang, K.K. Lehmann and G. Scoles Jet cooled NO₂ intra cavity laser absorption spectroscopy (ICLAS) between 11200 and 16150 cm, R. Georges, A. Delon, F. Bylicki, R. Jost, A. Campargue, A. Charvat, M. Chenevier and F. Stoeckel 	190 (1995) 123
 Laser excitation and dispersed fluorescence investigations of the à ²Π-ᾶ ²Σ + system of SrOH, P.I. Presunka and J.A. Coxon Laser photodissociation of fluorinated molecular dications, S.D. Price, YY. Lee, M. Manning and S.R. Leone Intramolecular vibrational dynamics of diacetylene and diacetylene-d₁ via eigenstate-resolved overtone spectroscopy, J.E. Gambogi, R. Zachary Pearson, X. Yang, K.K. Lehmann and G. Scoles Jet cooled NO₂ intra cavity laser absorption spectroscopy (ICLAS) between 11200 and 16150 cm, R. Georges, A. Delon, F. Bylicki, R. Jost, A. Campargue, A. Charvat, M. Chenevier and F. Stoeckel Collision-induced state-to-state energy transfer in perturbed rovibrational manifolds of small 	190 (1995) 123 190 (1995) 191 190 (1995) 207
 Laser excitation and dispersed fluorescence investigations of the à ²Π-ᾶ ²Σ + system of SrOH, P.I. Presunka and J.A. Coxon Laser photodissociation of fluorinated molecular dications, S.D. Price, YY. Lee, M. Manning and S.R. Leone Intramolecular vibrational dynamics of diacetylene and diacetylene-d₁ via eigenstate-resolved overtone spectroscopy, J.E. Gambogi, R. Zachary Pearson, X. Yang, K.K. Lehmann and G. Scoles Jet cooled NO₂ intra cavity laser absorption spectroscopy (ICLAS) between 11200 and 16150 cm, R. Georges, A. Delon, F. Bylicki, R. Jost, A. Campargue, A. Charvat, M. Chenevier and F. Stoeckel Collision-induced state-to-state energy transfer in perturbed rovibrational manifolds of small polyatomic molecules: mechanistic insights and observations, B.J. Orr 	190 (1995) 123 190 (1995) 191 190 (1995) 207 190 (1995) 261
 Laser excitation and dispersed fluorescence investigations of the à ²Π-ᾶ ²Σ + system of SrOH, P.I. Presunka and J.A. Coxon Laser photodissociation of fluorinated molecular dications, S.D. Price, YY. Lee, M. Manning and S.R. Leone Intramolecular vibrational dynamics of diacetylene and diacetylene-d₁ via eigenstate-resolved overtone spectroscopy, J.E. Gambogi, R. Zachary Pearson, X. Yang, K.K. Lehmann and G. Scoles Jet cooled NO₂ intra cavity laser absorption spectroscopy (ICLAS) between 11200 and 16150 cm, R. Georges, A. Delon, F. Bylicki, R. Jost, A. Campargue, A. Charvat, M. Chenevier and F. Stoeckel Collision-induced state-to-state energy transfer in perturbed rovibrational manifolds of small polyatomic molecules: mechanistic insights and observations, B.J. Orr The 3ν₁+ν₃ vibrational overtone spectrum of ¹³CH₄, K. Boraas and J.P. Reilly 	190 (1995) 123 190 (1995) 191 190 (1995) 207
 Laser excitation and dispersed fluorescence investigations of the à ²Π-ᾶ ²Σ + system of SrOH, P.I. Presunka and J.A. Coxon Laser photodissociation of fluorinated molecular dications, S.D. Price, YY. Lee, M. Manning and S.R. Leone Intramolecular vibrational dynamics of diacetylene and diacetylene-d₁ via eigenstate-resolved overtone spectroscopy, J.E. Gambogi, R. Zachary Pearson, X. Yang, K.K. Lehmann and G. Scoles Jet cooled NO₂ intra cavity laser absorption spectroscopy (ICLAS) between 11200 and 16150 cm, R. Georges, A. Delon, F. Bylicki, R. Jost, A. Campargue, A. Charvat, M. Chenevier and F. Stoeckel Collision-induced state-to-state energy transfer in perturbed rovibrational manifolds of small polyatomic molecules: mechanistic insights and observations, B.J. Orr The 3ν₁+ν₃ vibrational overtone spectrum of ¹³CH₄, K. Boraas and J.P. Reilly Direct observation of weak state mixing in highly vibrationally excited acetylene, A.L. Utz, 	190 (1995) 123 190 (1995) 191 190 (1995) 207 190 (1995) 261 190 (1995) 301
 Laser excitation and dispersed fluorescence investigations of the à ²Π-ᾶ ²Σ + system of SrOH, P.I. Presunka and J.A. Coxon Laser photodissociation of fluorinated molecular dications, S.D. Price, YY. Lee, M. Manning and S.R. Leone Intramolecular vibrational dynamics of diacetylene and diacetylene-d₁ via eigenstate-resolved overtone spectroscopy, J.E. Gambogi, R. Zachary Pearson, X. Yang, K.K. Lehmann and G. Scoles Jet cooled NO₂ intra cavity laser absorption spectroscopy (ICLAS) between 11200 and 16150 cm, R. Georges, A. Delon, F. Bylicki, R. Jost, A. Campargue, A. Charvat, M. Chenevier and F. Stoeckel Collision-induced state-to-state energy transfer in perturbed rovibrational manifolds of small polyatomic molecules: mechanistic insights and observations, B.J. Orr The 3ν₁+ν₃ vibrational overtone spectrum of ¹³CH₄, K. Boraas and J.P. Reilly Direct observation of weak state mixing in highly vibrationally excited acetylene, A.L. Utz, E. Carrasquillo M., J.D. Tobiason and F.F. Crim 	190 (1995) 123 190 (1995) 191 190 (1995) 207 190 (1995) 261
 Laser excitation and dispersed fluorescence investigations of the à ²Π-ᾶ ²Σ + system of SrOH, P.I. Presunka and J.A. Coxon Laser photodissociation of fluorinated molecular dications, S.D. Price, YY. Lee, M. Manning and S.R. Leone Intramolecular vibrational dynamics of diacetylene and diacetylene-d₁ via eigenstate-resolved overtone spectroscopy, J.E. Gambogi, R. Zachary Pearson, X. Yang, K.K. Lehmann and G. Scoles Jet cooled NO₂ intra cavity laser absorption spectroscopy (ICLAS) between 11200 and 16150 cm, R. Georges, A. Delon, F. Bylicki, R. Jost, A. Campargue, A. Charvat, M. Chenevier and F. Stoeckel Collision-induced state-to-state energy transfer in perturbed rovibrational manifolds of small polyatomic molecules: mechanistic insights and observations, B.J. Orr The 3ν₁+ν₃ vibrational overtone spectrum of ¹³CH₄, K. Boraas and J.P. Reilly Direct observation of weak state mixing in highly vibrationally excited acetylene, A.L. Utz, 	190 (1995) 123 190 (1995) 191 190 (1995) 207 190 (1995) 261 190 (1995) 301

Non-linear optical spectroscopy	
Theory of second harmonic generation in randomly oriented species, D.L. Andrews, P. Allcock and A.A. Demidov	190 (1995) 1
Multiple resonance spectroscopy	
Intramolecular vibrational dynamics of diacetylene and diacetylene- d_1 via eigenstate-	
resolved overtone spectroscopy, J.E. Gambogi, R. Zachary Pearson, X. Yang,	
K.K. Lehmann and G. Scoles	190 (1995) 191
High-order torsional couplings in the infrared spectrum of 3,3,3-trifluoropropene, A. Ainetschian, G.T. Fraser, B.H. Pate and R.D. Suenram	190 (1995) 231
Optoacoustic spectroscopy	
Sensitive photoacoustic overtone spectroscopy of acetylene with a multipass photoacoustic	
cell and a colour centre laser at 1.5 μ m, Ch. Hornberger, M. König, S.B. Rai and	100 (1005) 171
W. Demtröder	190 (1995) 171
Overtone spectroscopy of isobutane at cryogenic temperatures, C. Manzanares I., J. Peng, N. Mina-Camilde and A. Brock	190 (1995) 247
The $3\nu_1 + \nu_3$ vibrational overtone spectrum of $^{13}\text{CH}_4$, K. Boraas and J.P. Reilly	190 (1995) 301
	(,
Atomic and molecular beam techniques	
Charge inversion of ground-state and metastable-state C ₂ ⁺ cations formed from electroionised	
C ₂ H ₂ and C ₂ N ₂ , and a re-evaluation of the carbon dimer's ionisation energy, C.J. Reid,	
J.A. Ballantine, S.R. Andrews and F.M. Harris	190 (1995) 113
Chemiluminescence quasi-continua in collisions of Ca(\frac{1}{S}), Sr(\frac{1}{S}) and Mg*(\frac{3}{P}) atoms	100 (1005) 121
with I ₂ , P. Kierzkowski, R. Ławruszczuk and A. Kowalski	190 (1995) 131
Single and double electron capture in H ⁺ on Kr collisions at low-keV energies, H. Martínez, B.E. Fuentes, I. Alvarez, C. Cisneros and J. de Urquijo	190 (1995) 139
Intramolecular vibrational dynamics of diacetylene and diacetylene- d_1 via eigenstate-	190 (1993) 139
resolved overtone spectroscopy, J.E. Gambogi, R. Zachary Pearson, X. Yang,	
K.K. Lehmann and G. Scoles	190 (1995) 191
The intramolecular dynamics of allene in the region around 6000 cm ⁻¹ via eigenstate	
resolved IR spectroscopy, J.H. Timmermans, K.K. Lehmann and G. Scoles	190 (1995) 393
Time-resolved experiments	
An assessment of the role of polaron formation to hole transport in a triarylamine doped	100 (1005) 31
polymer, M. Van der Auweraer, G. Verbeek, F.C. De Schryver and P.M. Borsenberger	190 (1995) 31
Lack of ionic strength effect in the recombination of hydrated electrons: $(e^-)_{aq} + (e^-)_{aq} \rightarrow 2(OH^-) + H_2$, K.H. Schmidt and D.M. Bartels	190 (1995) 145
Collision-induced state-to-state energy transfer in perturbed rovibrational manifolds of small	170 (1775) 145
polyatomic molecules: mechanistic insights and observations, B.J. Orr	190 (1995) 261
Mass spectrometry	
Charge inversion of ground-state and metastable-state C ₂ ⁺ cations formed from electroionised	
C ₂ H ₂ and C ₂ N ₂ , and a re-evaluation of the carbon dimer's ionisation energy, C.J. Reid,	
J.A. Ballantine, S.R. Andrews and F.M. Harris	190 (1995) 113
Laser photodissociation of fluorinated molecular dications, S.D. Price, YY. Lee, M. Manning and S.R. Leone	190 (1995) 123
w. maining and S.K. Leone	170 (1773) 123

Objects

Bulk systems

Gases		
Fourfold clusters of rovibrational energies in H ₂ Te studied with an ab initio potential energy		
function, P. Jensen, Y. Li, G. Hirsch, R.J. Buenker, T.J. Lee and I.N. Kozin	190 (1995)	
The $3\nu_1 + \nu_3$ vibrational overtone spectrum of ¹³ CH ₄ , K. Boraas and J.P. Reilly	190 (1995)	301
Direct observation of weak state mixing in highly vibrationally excited acetylene, A.L. Utz,	100 (1005)	
E. Carrasquillo M., J.D. Tobiason and F.F. Crim	190 (1995)	311
Supersonic beams		
Jet cooled NO ₂ intra cavity laser absorption spectroscopy (ICLAS) between 11200 and		
16150 cm, R. Georges, A. Delon, F. Bylicki, R. Jost, A. Campargue, A. Charvat,		
M. Chenevier and F. Stoeckel	190 (1995)	207
Liquids neat	100 (1005)	
Structure and dynamics of liquid formamide, Y.P. Puhovski and B.M. Rode	190 (1995)	01
Liquids mixtures and solutions		
Examination of the viability of the Collins-Kimball model and numerical calculation of the		
time-dependent energy gap law of photoinduced charge separation in polar solution,		
N. Matsuda, T. Kakitani, T. Denda and N. Mataga	190 (1995)	83
Overtone spectroscopy of isobutane at cryogenic temperatures, C. Manzanares I., J. Peng,		
N. Mina-Camilde and A. Brock	190 (1995)	247
Polymers		
An assessment of the role of polaron formation to hole transport in a triarylamine doped		
polymer, M. Van der Auweraer, G. Verbeek, F.C. De Schryver and P.M. Borsenberger	190 (1995)	31
Biological systems		
Theory of second harmonic generation in randomly oriented species, D.L. Andrews,		
P. Allcock and A.A. Demidov	190 (1995)	1
Microscopic systems		
Malaulas (a sutual and ismis)		
Molecules (neutral and ionic)		
-diatomic		
Response theory calculations of singlet-triplet transitions in molecular nitrogen, B. Minaev,		
P. Norman, D. Jonsson and H. Ågren	190 (1995)	11
A theoretical study of the transition moments, Einstein A coefficients, and radiative lifetimes		
of the lowest triplet states of BeC, A.C. Borin and F.R. Ornellas	190 (1995)	43
A theoretical reinvestigation of the $\tilde{A}^{1}\Pi_{u}$ state of N_{2}^{2+} , F.R. Bennett	190 (1995)	53
-small polyatomics		
Laser excitation and dispersed fluorescence investigations of the $\tilde{A}^2\Pi - \tilde{X}^2\Sigma^+$ system of		
SrOH, P.I. Presunka and J.A. Coxon	190 (1995)	97
	()	

Chemiluminescence quasi-continua in collisions of Ca(1S), Sr(1S) and Mg*(3P) atoms	
with I ₂ , P. Kierzkowski, R. Ławruszczuk and A. Kowalski	190 (1995) 131
Dimethylacetylene: the theory required to analyse the infrared and Raman perpendicular	
bands, P.R. Bunker and C. Di Lauro	190 (1995) 159
Sensitive photoacoustic overtone spectroscopy of acetylene with a multipass photoacoustic	
cell and a colour centre laser at 1.5 μ m, Ch. Hornberger, M. König, S.B. Rai and	
W. Demtröder	190 (1995) 171
Fourfold clusters of rovibrational energies in H ₂ Te studied with an ab initio potential energy	
function, P. Jensen, Y. Li, G. Hirsch, R.J. Buenker, T.J. Lee and I.N. Kozin	190 (1995) 179
Jet cooled NO ₂ intra cavity laser absorption spectroscopy (ICLAS) between 11200 and	
16150 cm, R. Georges, A. Delon, F. Bylicki, R. Jost, A. Campargue, A. Charvat,	
M. Chenevier and F. Stoeckel	190 (1995) 207
Collision-induced state-to-state energy transfer in perturbed rovibrational manifolds of small	100 (1005) 0(1
polyatomic molecules: mechanistic insights and observations, B.J. Orr	190 (1995) 261
Vibration-rotation spectra of ¹³ C containing acetylene: anharmonic resonances, E. Venuti,	100 (1005) 270
G. Di Lonardo, P. Ferracuti, L. Fusina and I.M. Mills	190 (1995) 279
The vibration-rotation spectrum and anharmonic potential of H ₃ ⁺ , J.K.G. Watson	190 (1995) 291
The $3\nu_1 + \nu_3$ vibrational overtone spectrum of $^{13}\text{CH}_4$, K. Boraas and J.P. Reilly	190 (1995) 301
Direct observation of weak state mixing in highly vibrationally excited acetylene, A.L. Utz,	100 (1005) 211
E. Carrasquillo M., J.D. Tobiason and F.F. Crim An improved anharmonic force field of CHClF ₂ , P. Palmieri, R. Tarroni, M.M. Hühn,	190 (1995) 311
N.C. Handy and A. Willetts	190 (1995) 327
Ab initio calculations of stretching vibrational transitions for the linear molecules HCN,	190 (1993) 327
HNC, HCCF and HC ₃ N up to high overtones, P. Botschwina, B. Schulz, M. Horn and	
M. Matuschewski	190 (1995) 345
Overtone spectra and anharmonic resonances in haloacetylenes, A.F. Borro, I.M. Mills and	170 (1773) 343
A. Mose	190 (1995) 363
Short time quantum phase space dynamics at a 1:2 Fermi resonance, M.S. Child, G. Bruun	170 (1770) 505
and R. Paul	190 (1995) 373
Simplified models for anharmonic numbers and densities of vibrational states. I. Application	()
to NO ₂ and H ₃ ⁺ , J. Troe	190 (1995) 381
The intramolecular dynamics of allene in the region around 6000 cm ⁻¹ via eigenstate	()
resolved IR spectroscopy, J.H. Timmermans, K.K. Lehmann and G. Scoles	190 (1995) 393
,	
-aromatics	
High resolution spectroscopic study of the first overtone of the N-H stretch and of the	
fundamentals of the C-H stretches in pyrrole, A. Held and M. Herman	190 (1995) 407
Overtone spectroscopy and dynamics in monodeuteroacetylene (C ₂ HD), J. Liévin,	
M. Abbouti Temsamani, P. Gaspard and M. Herman	190 (1995) 419
Molecular aggregates	
Theory of second harmonic generation in randomly oriented species, D.L. Andrews,	
P. Allcock and A.A. Demidov	190 (1995) 1
Free radicals (including hydronium and muonium)	
Lack of ionic strength effect in the recombination of hydrated electrons:	
$(e^{-})_{aq} + (e^{-})_{aq} \rightarrow 2(OH^{-}) + H_2$, K.H. Schmidt and D.M. Bartels	190 (1995) 145
(* /aq (* /aq = (*** / ****) **************************	

Ions and charge carriers

Charge inversion of ground-state and metastable-state C₂⁺ cations formed from electroionised C₂H₂ and C₂N₂, and a re-evaluation of the carbon dimer's ionisation energy, C.J. Reid, J.A. Ballantine, S.R. Andrews and F.M. Harris

Laser photodissociation of fluorinated molecular dications, S.D. Price, Y.-Y. Lee, M. Manning and S.R. Leone

Lack of ionic strength effect in the recombination of hydrated electrons: $(e^-)_{aq} + (e^-)_{aq} \rightarrow 2(OH^-) + H_2$, K.H. Schmidt and D.M. Bartels

190 (1995) 113

190 (1995) 123

190 (1995) 145

Phenomena

Molecular structure

An improved anharmonic force field of CHClF2, P. Palmieri, R. Tarroni, M.M. Hühn, N.C. Handy and A. Willetts

190 (1995) 327

Vibrations and rotations of molecules

Laser excitation and dispersed fluorescence investigations of the $\tilde{A}^2\Pi - \tilde{X}^2\Sigma^+$ system of SrOH, P.I. Presunka and J.A. Coxon

Dimethylacetylene: the theory required to analyse the infrared and Raman perpendicular bands, P.R. Bunker and C. Di Lauro

Sensitive photoacoustic overtone spectroscopy of acetylene with a multipass photoacoustic cell and a colour centre laser at 1.5 µm, Ch. Hornberger, M. König, S.B. Rai and W. Demtröder

Fourfold clusters of rovibrational energies in H₂Te studied with an ab initio potential energy function, P. Jensen, Y. Li, G. Hirsch, R.J. Buenker, T.J. Lee and I.N. Kozin

Intramolecular vibrational dynamics of diacetylene and diacetylene-d₁ via eigenstateresolved overtone spectroscopy, J.E. Gambogi, R. Zachary Pearson, X. Yang, K.K. Lehmann and G. Scoles

High-order torsional couplings in the infrared spectrum of 3,3,3-trifluoropropene, A. Ainetschian, G.T. Fraser, B.H. Pate and R.D. Suenram

Overtone spectroscopy of isobutane at cryogenic temperatures, C. Manzanares I., J. Peng, N. Mina-Camilde and A. Brock

Collision-induced state-to-state energy transfer in perturbed rovibrational manifolds of small polyatomic molecules: mechanistic insights and observations, B.J. Orr

Vibration-rotation spectra of ¹³C containing acetylene: anharmonic resonances, E. Venuti, G. Di Lonardo, P. Ferracuti, L. Fusina and I.M. Mills

The vibration-rotation spectrum and anharmonic potential of H₃⁺, J.K.G. Watson

The $3\nu_1 + \nu_3$ vibrational overtone spectrum of $^{13}\text{CH}_4$, K. Boraas and J.P. Reilly

Direct observation of weak state mixing in highly vibrationally excited acetylene, A.L. Utz, E. Carrasquillo M., J.D. Tobiason and F.F. Crim

An improved anharmonic force field of CHClF₂, P. Palmieri, R. Tarroni, M.M. Hühn, N.C. Handy and A. Willetts

Ab initio calculations of stretching vibrational transitions for the linear molecules HCN, HNC, HCCF and HC₃N up to high overtones, P. Botschwina, B. Schulz, M. Horn and M. Matuschewski

190 (1995) 97

190 (1995) 159

190 (1995) 171

190 (1995) 179

190 (1995) 191

190 (1995) 231

190 (1995) 247

190 (1995) 261

190 (1995) 279

190 (1995) 291 190 (1995) 301

190 (1995) 311

190 (1995) 327

190 (1995) 345

Overtone spectra and anharmonic resonances in haloacetylenes, A.F. Borro, I.M.	
A. Mose	190 (1995) 363
High resolution spectroscopic study of the first overtone of the N-H stretch a fundamentals of the C-H stretches in pyrrole, A. Held and M. Herman	and of the 190 (1995) 407
Electronic structure and states	
Response theory calculations of singlet-triplet transitions in molecular nitrogen,	B. Minaev,
P. Norman, D. Jonsson and H. Ågren	190 (1995) 11
A theoretical study of the transition moments, Einstein A coefficients, and radiative	ve lifetimes
of the lowest triplet states of BeC, A.C. Borin and F.R. Ornellas	190 (1995) 43
A theoretical reinvestigation of the $\tilde{A}^{1}\Pi_{u}$ state of N_{2}^{2+} , F.R. Bennett	190 (1995) 53
Laser excitation and dispersed fluorescence investigations of the $\tilde{A}^2\Pi$ - $\tilde{X}^2\Sigma$ +	system of
SrOH, P.I. Presunka and J.A. Coxon	190 (1995) 97
Charge inversion of ground-state and metastable-state C ₂ ⁺ cations formed from elec-	ctroionised
C ₂ H ₂ and C ₂ N ₂ , and a re-evaluation of the carbon dimer's ionisation energy,	C.J. Reid,
J.A. Ballantine, S.R. Andrews and F.M. Harris	190 (1995) 113
Electric and magnetic magnetics	
Electric and magnetic properties Ab initio calculations of stretching vibrational transitions for the linear molecular molecu	ulas HCN
HNC, HCCF and HC ₃ N up to high overtones, P. Botschwina, B. Schulz, M.	
M. Matuschewski	190 (1995) 345
W. Watuschewski	190 (1993) 343
Spectral bandshapes and intensities	
High resolution spectroscopic study of the first overtone of the N-H stretch	and of the
fundamentals of the C-H stretches in pyrrole, A. Held and M. Herman	190 (1995) 407
Overtone spectroscopy and dynamics in monodeuteroacetylene (C ₂ HD),	J. Liévin,
M. Abbouti Temsamani, P. Gaspard and M. Herman	190 (1995) 419
Coupling of electronic and nuclear motion	
Jet cooled NO ₂ intra cavity laser absorption spectroscopy (ICLAS) between	11200 and
16150 cm, R. Georges, A. Delon, F. Bylicki, R. Jost, A. Campargue,	
M. Chenevier and F. Stoeckel	190 (1995) 207
Energy transfer processes Collision-induced state-to-state energy transfer in perturbed rovibrational manifo	ilds of small
polyatomic molecules: mechanistic insights and observations, B.J. Orr	190 (1995) 261
polyatomic molecules. mechanistic hisights and observations, B.J. Off	170 (1773) 201
Molecular photophysical processes	
Laser photodissociation of fluorinated molecular dications, S.D. Price,	YY. Lee,
M. Manning and S.R. Leone	190 (1995) 123
Simplified models for anharmonic numbers and densities of vibrational states. I.	
to NO ₂ and H ₃ ⁺ , J. Troe	190 (1995) 381
Intramolecular dynamics	
Short time quantum phase space dynamics at a 1:2 Fermi resonance, M.S. Chile	d, G. Bruun
and R. Paul	190 (1995) 373
High resolution spectroscopic study of the first overtone of the N-H stretch	,
fundamentals of the C-H stretches in pyrrole, A. Held and M. Herman	190 (1995) 407

-vibrational energy redistribution (including vibrational dissociation)	
High-order torsional couplings in the infrared spectrum of 3,3,3-trifluoropropene, A. Ainetschian, G.T. Fraser, B.H. Pate and R.D. Suenram	190 (1995) 231
Direct observation of weak state mixing in highly vibrationally excited acetylene, A.L. Utz,	100 (1005) 211
E. Carrasquillo M., J.D. Tobiason and F.F. Crim Overtone spectra and anharmonic resonances in haloacetylenes, A.F. Borro, I.M. Mills and	190 (1995) 311
A. Mose	190 (1995) 363
Short time quantum phase space dynamics at a 1:2 Fermi resonance, M.S. Child, G. Bruun and R. Paul	190 (1995) 373
Simplified models for anharmonic numbers and densities of vibrational states. I. Application	190 (1993) 373
to NO ₂ and H ₃ ⁺ , J. Troe	190 (1995) 381
The intramolecular dynamics of allene in the region around 6000 cm ⁻¹ via eigenstate resolved IR spectroscopy, J.H. Timmermans, K.K. Lehmann and G. Scoles	190 (1995) 393
Overtone spectroscopy and dynamics in monodeuteroacetylene (C ₂ HD), J. Liévin,	170 (1775) 575
M. Abbouti Temsamani, P. Gaspard and M. Herman	190 (1995) 419
Luminescence spectra, yields and lifetimes	
Response theory calculations of singlet-triplet transitions in molecular nitrogen, B. Minaev,	
P. Norman, D. Jonsson and H. Ågren A theoretical study of the transition moments. Finetain A coefficients, and radiative lifetimes.	190 (1995) 11
A theoretical study of the transition moments, Einstein A coefficients, and radiative lifetimes of the lowest triplet states of BeC, A.C. Borin and F.R. Ornellas	190 (1995) 43
Multiphoton phenomena	
Theory of second harmonic generation in randomly oriented species, D.L. Andrews,	
P. Allcock and A.A. Demidov	190 (1995) 1
Reactions (including dissociation)	
-gas phase	
Laser photodissociation of fluorinated molecular dications, S.D. Price, YY. Lee,	100 (1005) 100
M. Manning and S.R. Leone Chemiluminescence quasi-continua in collisions of Ca(1S), Sr(1S) and Mg*(3P) atoms	190 (1995) 123
with I ₂ , P. Kierzkowski, R. Ławruszczuk and A. Kowalski	190 (1995) 131
and development	
-condensed phase Lack of ionic strength effect in the recombination of hydrated electrons:	
$(e^-)_{aq} + (e^-)_{aq} \rightarrow 2(OH^-) + H_2$, K.H. Schmidt and D.M. Bartels	190 (1995) 145
Tunneling	
A theoretical reinvestigation of the $\tilde{A}^{1}\Pi_{u}$ state of N_{2}^{2+} , F.R. Bennett	190 (1995) 53
Electron transfer	
An assessment of the role of polaron formation to hole transport in a triarylamine doped	100 (1005) 5:
polymer, M. Van der Auweraer, G. Verbeek, F.C. De Schryver and P.M. Borsenberger Examination of the viability of the Collins-Kimball model and numerical calculation of the	190 (1995) 31
time-dependent energy gap law of photoinduced charge separation in polar solution,	
N. Matsuda, T. Kakitani, T. Denda and N. Mataga	190 (1995) 83

Charge inversion of ground-state and metastable-state C_2^+ cations formed from electroionised C_2H_2 and C_2N_2 , and a re-evaluation of the carbon dimer's ionisation energy, C.J. Reid,	
J.A. Ballantine, S.R. Andrews and F.M. Harris	190 (1995) 113
Single and double electron capture in H+ on Kr collisions at low-keV energies, H. Martínez,	
B.E. Fuentes, I. Alvarez, C. Cisneros and J. de Urquijo	190 (1995) 139
Molecular motion (including diffusive)	
Structure and dynamics of liquid formamide, Y.P. Puhovski and B.M. Rode	190 (1995) 61
Examination of the viability of the Collins-Kimball model and numerical calculation of the time-dependent energy gap law of photoinduced charge separation in polar solution,	
N. Matsuda, T. Kakitani, T. Denda and N. Mataga	190 (1995) 83
Lack of ionic strength effect in the recombination of hydrated electrons:	
$(e^-)_{aq} + (e^-)_{aq} \rightarrow 2(OH^-) + H_2$, K.H. Schmidt and D.M. Bartels	190 (1995) 145
The many distriction of the many and the man	
Thermodynamic and transport properties	
An assessment of the role of polaron formation to hole transport in a triarylamine doped	100 (1005) 21
polymer, M. Van der Auweraer, G. Verbeek, F.C. De Schryver and P.M. Borsenberger	190 (1995) 31